CVO FIRE

PIN NUMBER: **0063-BQ5340**

Rev 3 [2010]

Compact Fire Ribbon™

With Battery Remote System

TECHNICAL INSTALLATION MANUAL

Important

For use with Natural Gas (G20) or LPG (G31), check data plate within appliance for settings. There are 2 Natural Gas Versions of this Fire that are CE approved. Please refer to data plate for actual heat input of appliance.

It is recommended, even if you have fitted these appliances before, that you take the time to read through these instructions and follow them step by step.

Serial Number.....

Please quote this serial number when calling to discuss technical issues, ordering spare parts or making a warranty claim. Your Warranty is valid for 1 Year from date of delivery. The Warranty card supplied with the appliance should be completed by the installer and returned to the following address. **Spirit Fires Limited. Unit 4, Beaumont Square, Aycliffe Industrial Park, Newton Aycliffe, County Durham, DL5 6XN.**

This manual must be handed to the owner of the property once the fire has been installed and commissioned

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CVO Commissioning Checklist

Important Notice

Explain the operation of the appliance to the end user, hand the completed instructions to them for safe keeping, as the information will be required when making any guaranteed claims.

Flue Check	Pass	Fail
1. Flue is correct for appliance		
2. Flue Flow test		
3. Spillage test		
Gas Check		
1. Gas soundness & let by test		
2. Standing pressure test		
3. Appliance working pressure (on High Setting) NB All other gas appliances must be operating on full		
4. Gas rate		
5. Does ventilation meet appliance requirements		

Dealer and Installer Information

Dealer.....

.....

.....

Contact No.....

Date of Purchase.....

Model No.....

Gas Type.....

Installation Company.....

.....

.....

Engineer.....

Contact No.....

Corgi Reg No.....

Date of Installation.....

This product is guaranteed for 1 year from the date of installation, as set out in the terms and conditions of sale between CVO and your local CVO dealer. This guarantee will be invalid, to the extent permitted by law, if the above Commissioning Checklist is not fully completed by the installer.

Parts List – Compact Ribbon

- Fire is supplied as a Kit:
  - Standard Parts
    - Enclosure in Brushed Steel.
    - Front Shelf.
    - Burner Unit with Remote Control
    - Fascia.
      - Stone has 2 part wall bracket fitted.
      - Metal fits directly to wall (no bracket)
    - Instruction Booklet
    - Remote Control Handset
  - Optional Parts
    - Gather Unit
    - Fascia Trim

Please check your delivery note. Any missing parts must be notified within 48 hours of delivery. No claims can be accepted after this period.

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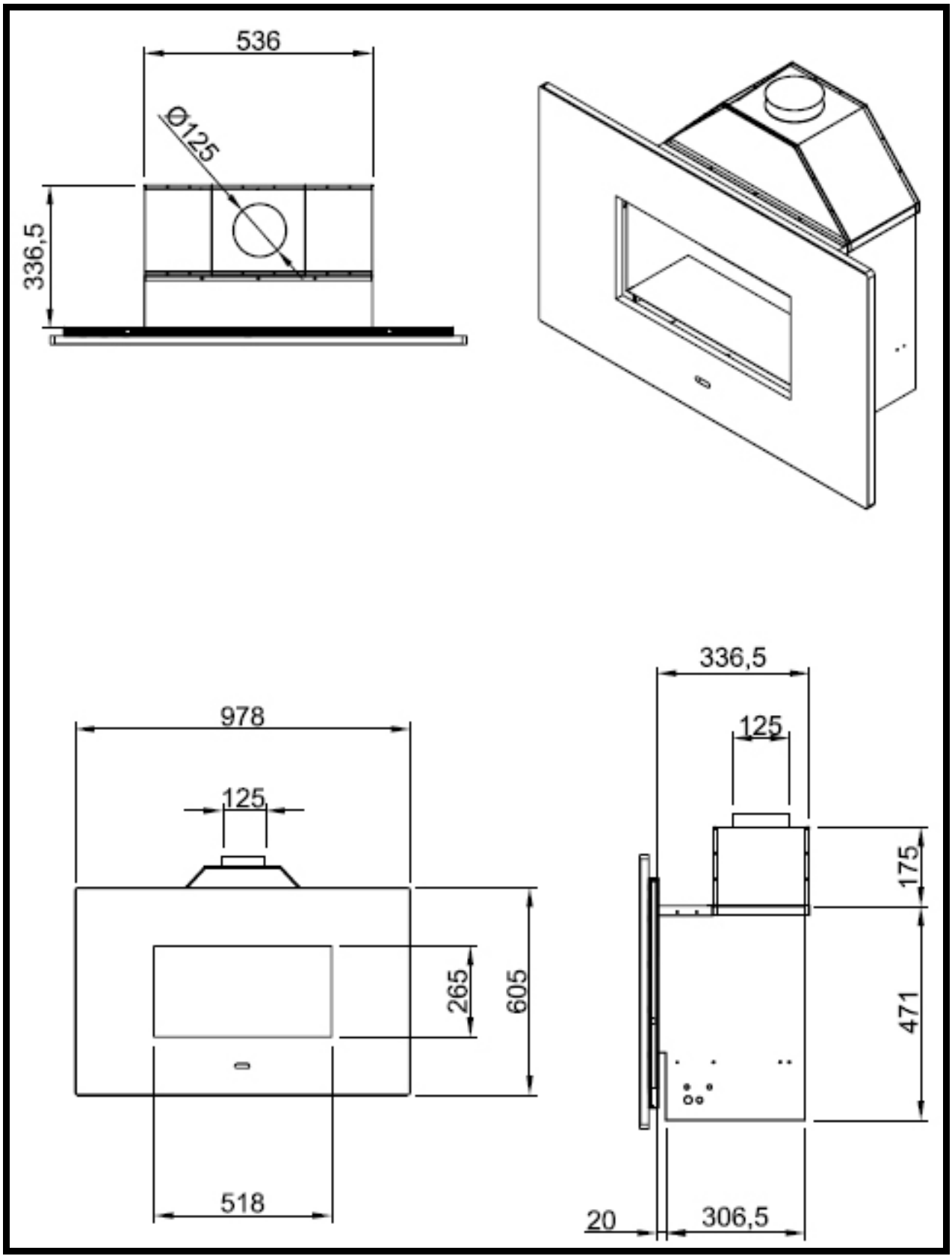
Construction Dimensions



Technical data

Specifications

Pilot Assembly Marking	NG	SIT-9103
	LPG	SIT-9272
Gas connection		8mm O.D. tube
Minimum flue diameter		127.0mm
Minimum flue height		2.0m
Approximate weight		N/A

Essence Fire Data

Gas Type	Category	Inlet Pressure (Mbar)	Injector (X1)	Heat Input KW Gross	Countries
G20	I2H	20	380	**6.0**	AT, CH, CZ, DK, EE, ES, FI, GB, GR, IE, IT, LT, LV, NO, PT, RO, SE, SI, SK, TR
G20	I2E	20	380	**6.0**	DE, LU, PL, RO
G20/G25	I2E+	20/25	380	**6.0/5.5**	FR, BE
G25	I2L	25	380	**5.5**	NL
G31	I3P (37)	37	125	**6.5**	BE, CH, CZ, ES, FR, GB, GR, IE, IT, PL, PT, SI, SK, TR
G30/G31	I3+	28-30/37	125	**6.5**	BE, CH, CY, CZ, ES, FR,
G30/G31	I3B/P (30)	30	125	**6.5**	HU, BE, CY, DK, EE, ES, FI, FR, GB, GR, LT, NL, NO, RO, SE, SI, SK, TR

Introduction

This appliance is supplied as a complete suite of enclosure of gas fire burner unit, enclosure and fascia. To comply with the approval this fire must be installed as designed**.**

Fascia: The fire must be installed with the fascia "floating" on the wall with the required "air intake" area provided below the shelf as shown in the following pages. The fascia should never be "flush" mounted into the wall otherwise serious burner damage will occur. The fascia must be installed as intended and ventilation to the burner must be provided.

Enclosure: Special notice should be taken for the requirements of both the metal and stone fascia version fires as the enclosure must be installed differently. On the metal fascia version the enclosure is flush with the finished wall. On the stone fascia version the enclosure must stand 18mm proud of the finished wall.

Gather: An optional gather is available to attach the enclosure to a 127mm class 2 flue liners. This gather should be ordered with the appliance however if this has been missed this can be ordered from Customer Services on 01325-327221.

Gas Supply: This appliance requires a steady gas supply within +/- 1mBar of the approved pressure as shown on the data plate at all times. Inlet is via an 8mm gas line. If the gas line is longer than 1.5mtrs then the gas line should be increased in diameter to 15mm and possibly larger depending on the length of gas pipe required.
LPG Version: If running this appliance from Gas Bottles the minimum requirement is 2 x 47Kg bottles with a regulator set to the required pressure and a changeover valve. Failure to do this will result in nuisance shutdowns especially in very cold weather.

Flame: It is normal with this type of appliance for the flame to be directed towards the back of the enclosure.

Flue System: This fire is approved for use with a class 2 / 127mm flue of 2 meters minimum. If a flue system in excess of the specified length is used this may cause a very strong draw to occur which will result in the flame being adversely effected and forced towards the back of the enclosure. This is unavoidable and is a site specific condition and does not indicate an appliance fault.

Remote Heat Shield: This fire is approved with the heat shield in place. The fire should never be operated without the heat shield; any resulting damage caused by heat is not covered by the warranty.

Unpacking the Appliance

Read these instructions fully before proceeding.

Carefully examine the carton for damage before proceeding. If it is obviously damaged, please contact supplier over whether to proceed.

Remove the fire and examine its general condition. If satisfied by the condition, proceed with the installation. **PLEASE NOTE no claims will be accepted for damaged or faulty components once the appliance has been installed.**

Read the installation instructions fully before starting to install the appliance.

The installation should only be carried out by a GAS SAFE registered engineer, and in accordance with national and local regulations for gas.

The installation must also be in accordance with relevant parts of local and national building regulations.

For the Republic of Ireland, reference should be made to IS813 and ICP3 and any guidance notes from Bord Gais.

Failure to have the fire fitted by a qualified person nullifies ALL warranties and guarantees.

Gas Burner Construction

Take some time to review the burner construction taking note of the positions of the main components and the required connections.

Before starting to install the appliance review the Data Plate fitted to the appliance for the gas type and pressure requirements of the appliance. Ensure these are correct for the property supply.

This Fire has a battery remote control system and requires only the connection of a 8mm gas supply. The remote is operated via a handset and infra red magic eye positioned on the appliance.

Important Note:

Gas Supply : The appliance is supplied with an 8mm isolation valve fitted ready for connection to an 8mm inlet tube. Before starting to create the construction opening for the unit provisions for a gas supply need to be made. To maintain a good standing pressure we recommend that a 15mm copper pipe supply be routed as close as possible to the unit with a reduction down to 8mm diameter for the final connection. The 8mm run should be no longer that 1.5m in length. The gas supply pipe should run into the installed enclosure from either the rear, left or right hand sides, the gas supply is best run through the left side of the enclosure.

LPG Version. If running this appliance via Gas Bottles then the minimum requirement is 2 x 47Kg bottles with a regulator set to the required pressure and a changeover valve. Failure to do this will result in nuisance shutdowns especially in very cold weather.

WARNING

The fire is supplied fully tested and working. There should be no need to make any adjustments or to remove any connections from the remote system.

Remote Control System

Take some time to learn about the remote system fitted to this fire.

This Fire remote control system which is powered batteries. The fire is supplied with a hand set to switch the fire on/off and regulate the flame up/down. In order to operate the appliance the handset must be pointed directly at the magic eye (line of sight) on the fire.

The hand set has a child safe feature to avoid accidental lighting. Please read "lighting the fire" section later in this handbook before operating the appliance.

The remote is powered by 6 x 'AA' Batteries in the appliance and a 9V battery in the handset.

It is recommended that only "Lithium" batteries are used in the remote system to ensure a long life.

Note: that if the fire shuts down it is set in "safe mode" to reactivate the fire press button #1 only on the handset. This will cause a beep. Now the fire can be lit again using the standard start-up sequence.

The remote system has a fault diagnosis system built in which is indicated by a number of beeps. Review the "fault diagnosis" section later in this manual for the code. A warning sound when the internal batteries become low will e heard however if the batteries are totally dead there will be no sund. If the appliance fails to operate on the hand set change the batteries in both the appliance and the hand set as this is the most common cause of failure.

IMPORTANT NOTE: All CVO fires are given a 100% full function test at the factory before being shipped. **Never remove any wires from the black box or the remote system. All connections are required.** There is no need to remove any connections from the remote system during installation. Removal of any connections will result in the warranty being invalidated and no claims will be accepted for the unit not working.

General Installation Information

This fire is intended for decorative purposes. The installation must be in accordance with National Regulations and must be carried out by a qualified installer.

Clearances between the fire and all combustible materials must conform to National Regulations.

This fire must be installed and used in accordance with these instructions.
Prior to installation, ensure that the local distribution conditions (identification of the type of gas and pressure and the adjustment of the appliance) are compatible.

The builders opening or fireplace opening must be constructed of a non-combustible material.

For some countries a non-combustible hearth must be fitted in front of the fire in accordance with National Regulations (e.g. United Kingdom).

For some countries a purpose provided air supply must be fitted in accordance with National Regulations.

Any flue damper plate or flue restrictor must be removed or fixed permanently in the fully open position, or shall only be fitted in accordance with National Regulations.

The chimney must be swept before the appliance is installed. The unit must not be installed unless the chimney/flue length is at least the distance indicated on page 6 (minimum flue height).

Before the fire is installed a flue test in accordance with National Regulations should be carried out.

The gas connections must be in accordance with National Regulations.
An isolation valve, or valves, has to be fitted adjacent to the appliance which, when closed, allow(s) the complete burner and control assembly to be disconnected for maintenance or repair in accordance with National Regulations.

The pilot light and flame sensing device fitted to this fire is also an atmosphere sensing devise. If for any reason any part of the pilot assembly is to be replaced ALL the assembly including the pilot burner, thermocouple, electrode and injector must be exchanged complete for an original manufacturer's pilot assembly only. This atmosphere sensing devise is not adjustable and must not be put out of action. The pilot light shuts off both the main burner and pilot if evacuation of the combustion products is interrupted. If the fire shuts itself off, do not use the fire, and have the flue and fire checked by a suitably qualified person.

For some countries a purpose provided air supply must be fitted in accordance with National Regulations.

It is recommended that a guard be used for the protection of young children, the elderly or infirm.

This fire should be checked regularly to ensure that it is free from obstruction. A qualified person should service the fire regularly.

After installation, the chimney should be inspected and swept regularly to keep the flue clear and free from debris and excessive build up of soot. The fire needs to be covered up when work is undertaken, to ensure the unit does not get damaged or gas outlets blocked.

Do not throw rubbish on the unit, as this will block or hamper its efficiency.

Due to the newness of the materials, the fire may give off a slight smell for a period of time after commissioning. This is quite normal and any odours should disperse within a few hours of operation.

Building and Installation Work

A qualified person should complete all building work; a qualified and competent person to all relevant national legislative controls must carry out the installation of gas burners, mechanical extraction, flue systems and remote control units.

Building work should only commence after a thorough survey of the intended location of the impending installation has been completed and it has been established that the unit can be installed and operated without risk to the owner or tenants of the property or their neighbours.

Where existing chimney systems are to be used in conjunction with the Fire Ribbon, they should have been swept and undergone thorough examination to ensure that they are in a sound and safe condition, as well as providing an adequate draw when the gas fire unit is in operation.

A simple smoke test will reveal weather or not the chimney is working correctly.

It is important that the gas supply is disconnected before any old existing surround and hearth is removed.

The Compact Fire Ribbon enclosure should be located centrally to the existing flue / chimney at your desired height. If the fire is not placed central to the chimney, the flame picture may pull incorrectly.

In some installations it is necessary to install a small lintel unit above the opening, if so an allowance must be made to accommodate the lintel. NOTE - The Fire Ribbon does not have its own support lintel. NOTE – The support lintel is not supplied with the unit.

Important Note: Once installed all additional gas inlet holes in the enclosure [not the front vent] must be sealed with metal tape to avoid flame reversal which will damage the remote.

****** VERY IMPORTANT ******

Before commencing any work check the type of fascia to be fitted as this will determine the building opening depth required.

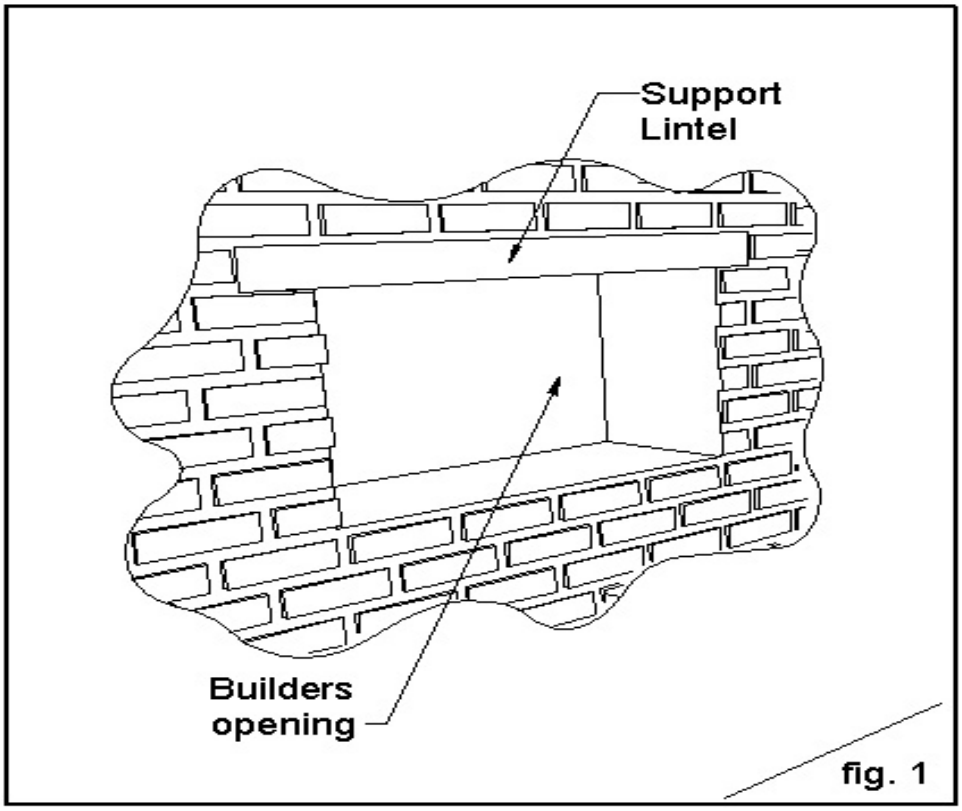
For a Fire with a Stone Fascia the enclosure front edge must sit 18mm "out" from the finished wall.

For a Fire with a Metal Fascia the enclosure front edge must sit flush with the wall.

Fitting the Optional Gather

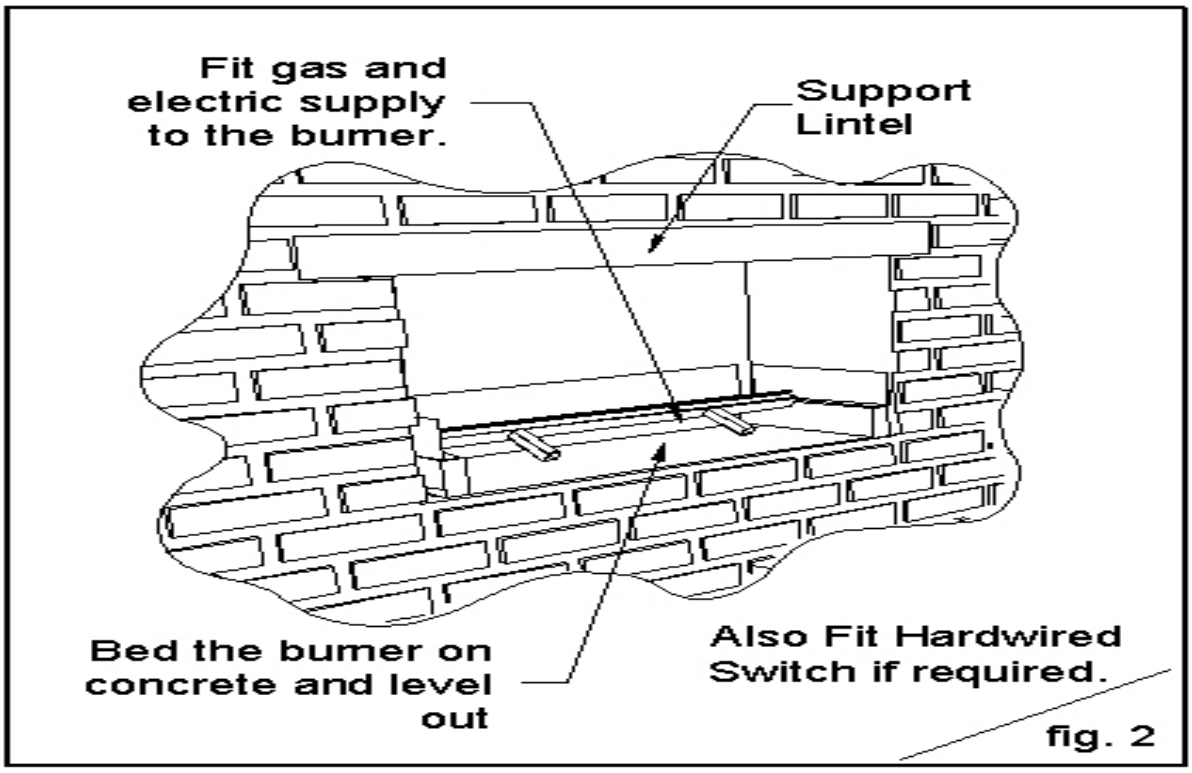
If using with the optional Gather, dry fit the gather to the enclosure taking note of where the gather and enclosure overlap. In some installations it may be possible to insert the gather into the opening and lift up to allow space to slide the enclosure in. This reduces the need for a very large builders opening. The joint between gather and enclosure must be sealed by silicone or metal tape to ensure an airtight seal when fitting the gather. Screw the gather in place from the inside of the enclosure using the 6 countersunk screws provided.

Fitting the Metal Enclosure



The original fire opening must be closed, using bricks / blocks infill the opening to the required base of the burner, the void behind the brickwork should also be filled; block work or rubble can be used. (It is advisable to install a solid base inside the fire opening to sit the steel framework supporting the burner unit and stone or metal enclosure on to.) It is advisable to allow 15mm clearance in the height of the fire opening; this can then be filled with cement ready for the burner to be placed onto.

IMPORTANT NOTE: When fitting the enclosure unit the enclosure front edge must be positioned depending on the fascia type (see pages 18-20). Incorrect positioning of the enclosure will result in burner damage.


Fit gas and electric supply to the bumer.
Support Lintel
Bed the bumer on concrete and level out
Also Fit Hardwired Switch if required.
fig. 2

Gas Supply

Consult the Data Plate within the appliance to ensure the correct gas type and pressure is available within the property. Before commencing to create the fire opening for the inglenook unit note that a gas supply is required. The gas supply pipe should run into the installed enclosure from either the rear, left or right hand sides, the gas supply is best run through the left side of the enclosure. The fire has an 8mm inlet via an isolation valve. The fire also includes a pressure test point elbow to test inlet pressure. The gas pipe work should be routed into the enclosure via the available access holes. If the gas pipe work is over 1.5mtrs in length it is recommended that the pipe work is increased in diameter from this point to 15mm and possibly 22mm depending on the length to the meter. This will ensure a stable gas supply.

Gather

The steel gather unit (if required) should now be held up in the opening for preparation on the fitting of the enclosure. Note if the standard gather is not going to be used to exhaust the combustions provisions should be made in accordance with Corgi regulations.

Installation Continued

The steel enclosure with burner unit is then positioned so that the front edge is positioned as per the fascia type to be fitted **(see pages 18-20).** Once the steel frame/burner is correctly positioned it is then fixed using fixing screws, which pass through the frame into the newly built fire opening

brickwork. The Enclosure must be secure and unable to move. The air intake area at the front of the fire must be left open.

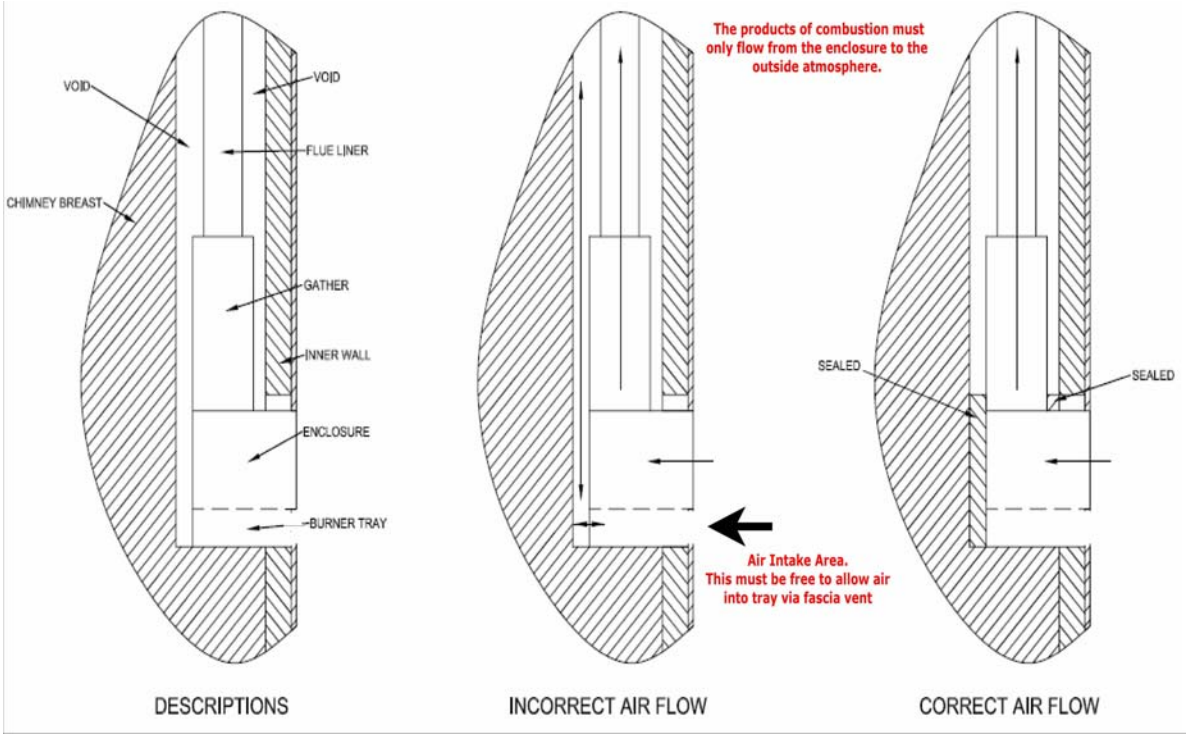
The gas supply is now connected and the burner unit is to be tested for safe operation.

The front shelf should now be unpacked and fitted. Great care must be taken when inserting the shelves to avoid scratching the inside of the metal enclosure.

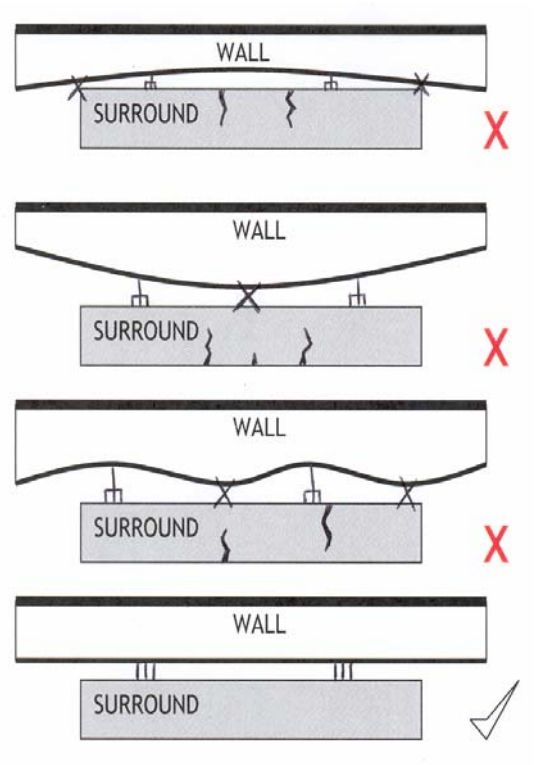
Guidance on Ventilation and Sealing

Air Intake Area/ Burner Ventilation

Air is required to the burner unit. This is supplied via the fascia bottom edge. The area between the shelf and the bottom edge of the fascia **must not be sealed.** This area is required as an "Air Intake Area"



Preparing to fit the Fascia



The Fascia can now be fitted providing the wall surface is perfectly level both vertically and horizontally. See image left.

Important - If the wall is not level, the wall should be skimmed until level.

This shows positive areas that can cause fractures in the facia / surround if fitted to a wall of uneven surface.

Failure to fit the fascia to a flat wall will cause serious damage to the fascia which is not covered by the warranty.

Fitting the Stone Fascia

Stone Fascia Hanging Bracket Positioning

Note: the Enclosure on the Stone Fascia Version must protrude by a total of 20mm from the wall. If this is not done flame performance will be affected and possible enclosure and burner damage will occur. This is NOT covered by the warranty.

The Wall bracket is supplied in 2 pieces. The first part is bonded to the stone at the factory. The second part is fixed to the wall. The fascia is supplied with the wall bracket attached. Remove the 4 cross headed screws, remove the wall bracket and put the fascia and screws in a safe place. Ensure the wall is flush before fitting the fascia. Position the wall bracket as shown below. Measure the dimension as shown below from top of enclosure lintel to the top edge of the wall bracket. The fascia is very heavy and the wall bracket must be secured into a solid surface using suitable screws & rawl plugs to ensure it cannot fall or be pulled from the wall.

Ventilation Air Intake

For the burner to work correctly there should be an air intake cut-out below the front shelf as shown in the above image. This air void provides burner ventilation to ensure the flame remains stable and the remote system remains cool. The Air Flow is provided via the from fascia lower intake. Failure to ensure this will result in serious damage to the remote system. This damage is not covered by the warranty.

Hanging the Stone Fascia & Fitting Magic Eye

With the help of an assistant, lift the fascia into place. Unclip the remote magic eye and plug into the remote control (as shown on wiring diagram).

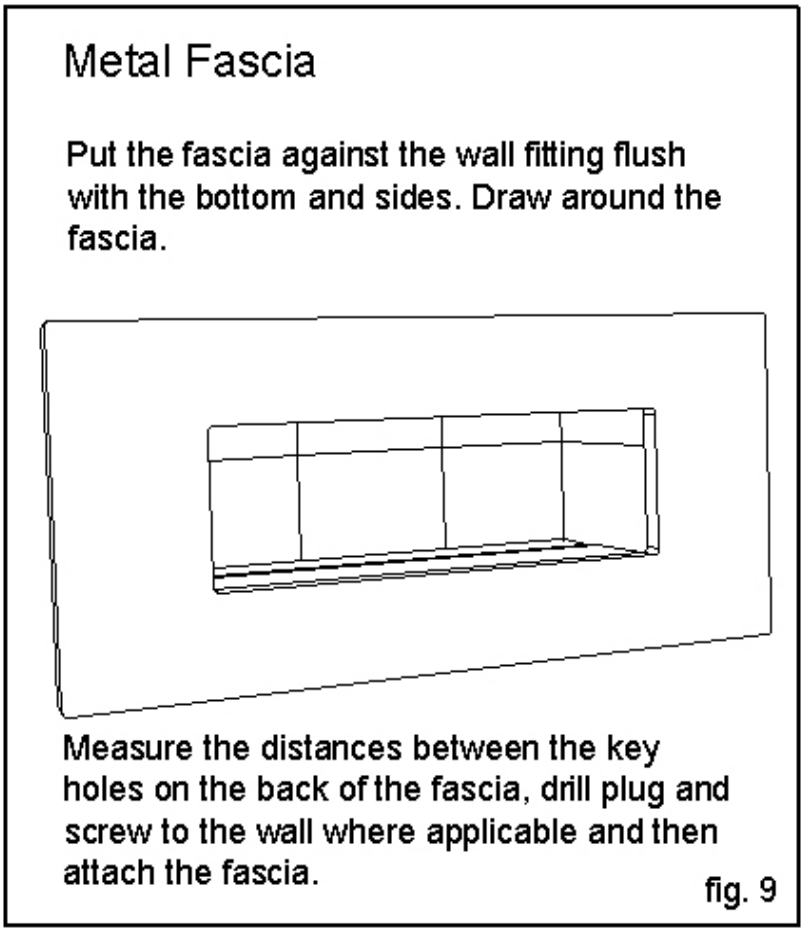
Once the remote is attached lift the fascia on to the wall bracket. Refit the 4 cross headed screws and ensure fascia is secure.

WARNING: The fascia must never be sealed or built flush into the wall. The Fascia has an air vent at the lower edge. This with Air Intake provides ventilation to the burner unit. If this is blocked or the fascia not fitted in the way shown then serious damage to the burner and remote system will result which is NOT covered by the warranty.

The Finished fascia should look like the image below. If this is not the case then it is not fitted correctly and the fire will not function as designed. The fascia must never be fitted "flush" to the wall. See image below.

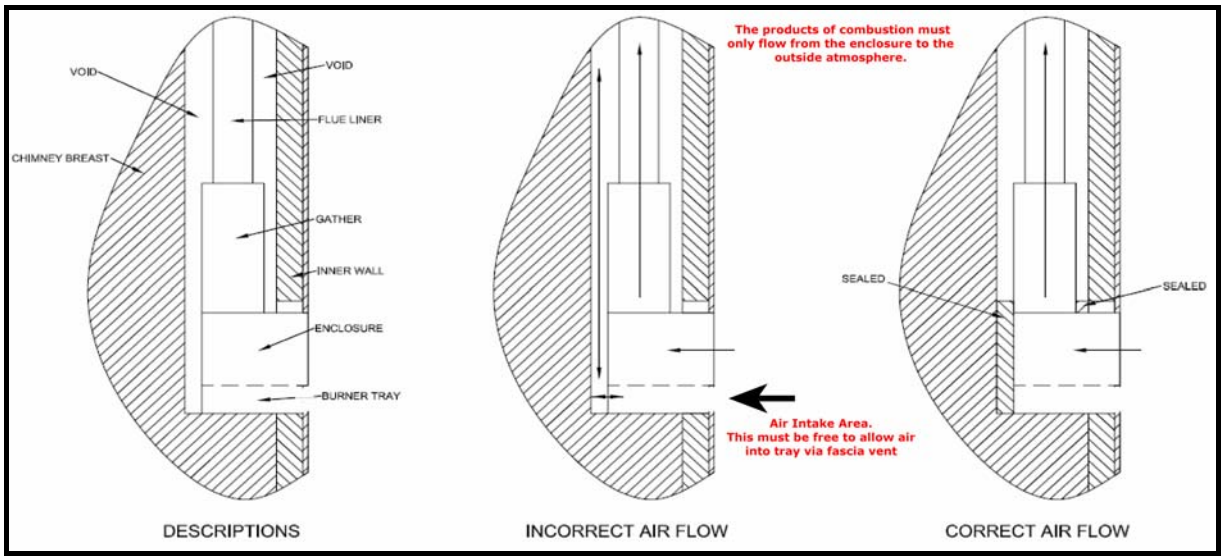
Fitting the Metal Fascia

- See information above for details of the Air Intake requirements.
- **WARNING:** the Enclosure on the Metal Fascia must be flush with the wall before attempting to fit the fascia.
- Put the fascia against the wall so that the lower edge is level with the shelf.
- Draw around the fascia.
- Remove fascia and turn over.
- Measure positions of screw key holes and mark this onto the wall.
- Drill and Plug holes. Fit Suitable Screws to a depth to ensure the fascia locks against the wall when fitted.
- With the help of an assistant, lift the Fascia towards fire.
- Unclip the remote magic eye and plug this into the remote box as shown on the wiring diagram.
- Lift fascia onto the wall until key holes line up then pus fascia down to lock in place.
- **WARNING:** The metal fascia must sit off the wall 40mm. It must never be installed "flush" into the wall or plaster. The fascia has an air vent which runs along the bottom. This plus the specified air intake area ensure the burner and flame perform as required. Failure to do this will result in serious burner damage which is NOT covered by the warranty.


Metal Fascia
Put the fascia against the wall fitting flush with the bottom and sides. Draw around the fascia.
Measure the distances between the key holes on the back of the fascia, drill plug and screw to the wall where applicable and then attach the fascia.
fig. 9

Commissioning the Fire

This appliance requires a specific amount of ventilation to function as designed (correct flame picture), therefore any unused utility access points in the burner tray must be sealed with Aluminium foil tape.



When installing the enclosure into an existing chimney or with a flue liner the enclosure & gather must be sealed to the existing chimney to ensure that air cannot flow behind the enclosure (flame reversal). Failure to do this will result in serious damage to the burner unit and enclosure. This damage is not covered by the warranty.

Use the commissioning sheet on page 3 completing each section in turn. Refer to the "lighting the fire" section later in this handbook to learn the remote system and sequence. **Note:** This fire must not be operated without the heat shield in place over the Black Box. Failure to do this will result in serious damage to the remote system which will not be covered by the warranty.

TEST THE GAS PRESSURE: Turn the fire on full; attach a manometer to the inlet test point and ensure there is a pressure of 20mb (+/- 1mb) for natural gas appliances or 30mb or 37mb for propane appliances. Now turn on all the other gas appliances in the house and re check pressure. The pressure must still be within the tolerance of +/- 1mb. Now turn off all the other gas appliances and turn the fire down to pilot only, the pressure must still be in the tolerance of +/- 1mb. If its not, TRANSCO, BORD GAIS or the propane supplier must be called to adjust the governor to the house before the fire can be commissioned further.

TEST THE FLUE: The installer must check that all of the combustion products are entering the flue after 10 minutes by traversing the perimeter of the fireplace opening using a smoke "match". Ensure the flue and enclosures are sealed.

BRIEF THE CUSTOMER:

- How to light and shut down the appliance.
- How to change the hand set batteries.
- How to change the main appliance batteries.
- The customer must be told of the need for regular servicing of the appliance, at least once a year.
- The customer must be made aware that no rubbish is to be thrown onto the fire bed.
- The customer must also be aware that purpose provided ventilation should be checked regularly.
- Complete the warranty card and give this to the customer.
- Give the customer the instruction booklet.

Final Install Check List

- **Are the Flue & Enclosure sealed to ensure no air can travel around the sides or back of the enclosure?**
- **Are all other access holes in the burner tray sealed with metal tape?**
- **Is the heat shield fitted?**
- **Has the customer being shown how to operate the appliance?**
- **Has the customer been shown how to replace the handset and main appliance batteries?**
- **Has the commissioning sheet on page 3 been completed?**
- **If you have any questions, or the fire is not operating correctly, contact the manufacturer on 01325-327221 before you leave the installation.**
- **If the appliance is not fitted in strict accordance with these instructions, CVO cannot be held responsible for any damage caused and reserve the right to charge for any corrective work.**

Oxygen Depletion Pilot System

There is a highly sensitive oxygen depletion sensor designed into the pilot light. If any part is damaged the entire unit must be replaced. Do not attempt to bend or alter the flame head, thermocouple or aeration hole. Use only genuine spare parts as similar looking parts from other appliances may well give different or inferior performance and could lead to a hazard.

Spark / Ignition Failure

The gap between the pilot electrode and the pilot should be 3.5 – 4.5mm and normally adjustment is not necessary (the electrode is very brittle). The spark should jump across the gap between the electrode and the gas outlet on the pilot head. If the ignitor fails, a lighted taper can be inserted into the pilot area to check that gas is reaching the pilot.

Burner Flame

The flame on this type of appliance is normally directed towards the rear of the enclosure. This is normal due to the opening size and flue system. The flame will never stand "upright". It is to be expected that over time the surface on the rear of the enclosure will tarnish. This is typical "wear and tear" for a gas fire. If the flame is drawn under the shelf this highlights a serious installation fault and the appliance must not be operated until the cause is found. A typical cause would be unsealed burner holes or failure to seal the enclosure and flue (flame reversal). Any resulting damage is not covered by the warranty which covers "defective" parts only.

Warning: Fire Guards & Hearths

This appliance is not fitted with an integral guard. In normal use consideration may be given to the use of a fireguard conforming to BS6539 or BS6778, so that the approach to the appliance is limited such that access to the flame is minimised.

It is recommended that a fireguard conforming to BS6539 or BS6778 is used for the protection of young children, the elderly and infirm.
The installer is to advise the user not to stand too close to the appliance for prolonged periods of time and warn that loose clothing is particularly at risk of burning due to the presence of an unguarded flame.
In addition, the installer is to advise the user against placing combustible material directly in front of the appliance. Floor coverings, such as carpets, are considered to be acceptable.

For some countries a non-combustible hearth must be fitted in front of the fire in accordance with National Regulations (e.g. United Kingdom).

Appliance Start Up / Shut Down Instructions

The appliance is supplied with an internal battery power supply and is operated via handset. There are 6 x 'AA' batteries inside the appliance and 1 x 9V battery in the handset. Only use good quality batteries to ensure a long life.

If the main burner or pilot light is extinguished during lighting, do not attempt to re-light the pilot within three minutes.

To Reset the Appliance:
If the appliance is shut down unexpectedly the valve must be reset first before the fire can be re-lit. This can be done by pressing the "OFF" (button #1) until a beep is heard. Wait a few seconds then commence the starting sequence as detailed below by pressing both left had buttons at the same time.

Using the Handset (see image).

- **To Light the Fire** – As a "child proof" system both buttons #1 & #2 must be pressed at the same time for a number of seconds until the ignition (spark) sequence starts. To operate correctly the handset must be pointed directly at the magic eye on the appliance. When the pilot flame presence is detected (ionization flame control) the system holds for 10 seconds to warm the thermocouple. Once the thermocouple is warm enough to hold the magnet unit the valve will allow gas to the burner at the maximum setting.
- In case of failure during pilot ignition sequence, the EDB puts the system in safe mode. To restart the ignition sequence press Button #1 again.
- **Standby Mode** - It is possible once the fire is lit to operate in standby mode with pilot only lit. To do this press button #2.

- **High Setting** - By pressing Button #3 the burner flame is increased to the maximum rate.

- **Low Setting** - By pressing Button #4 the burner flame can be reduced to the minimum rate.

- **Turn Off** - To turn the appliance OFF Button #1 is pressed.

Each time a button is pressed a "beep" will be heard.

To Summarise:

- Button #1 & #2 together – This switches the appliance ON.
- Button #1 – This switches the appliance OFF and Resets the Appliance.
- Button #2 – This sets the unit into standby mode (pilot only)
- Button #3 – This sets the flame at maximum rate.
- Button #4 – This sets the flame at minimum rate.

Each time a button is pressed a "beep" will be heard.

Using the Manual Control Panel (if fitted).

Included with the fire is a manual switch membrane which can be stuck to the wall. Please ensure that the switch and cable do not become detached during assembly. Refer to the remote fault diagnosis if the unit "beeps" repeatedly.

If the switch is not to be used or fitted the remote "link" must be fitted to the remote black box. The fire will not operate without either the switch or the link.

- Button #1 - By pressing this switch, this starts the ignition sequence (press & hold for 3 sec minimum). The gas to the pilot is open and the magnet unit pressed by the motor, the spark is generated. When the pilot flame presence is detected the system holds for 10 seconds to warm the thermocouple.
- Once the thermocouple is warm enough to hold the magnet unit the valve will allow gas to the burner at the maximum setting.
- In case of failure during pilot ignition sequence, the EDB puts the system in safe mode. To restart the ignition sequence press Button #1 again.
- It is possible once the fire is lit to operate in standby mode with pilot only lit. To do this press button #2.
- By pressing Button #3 the burner flame is increased to the maximum rate.
- By pressing Button #4 the burner flame can be reduced to the minimum rate.
- To turn the appliance OFF Button #1 is pressed.
- Each time a button is pressed a "beep" will be heard.

NOTE:

If the appliance is shut down unexpectedly the valve must be reset first before the fire can be re-lit. To do this press the "OFF" button until a beep is heard. Then commence the starting sequence as detailed above by pressing both left had buttons at the same time.

The pilot is a safety device which monitors the gas pressure and flue conditions. If a fault in either of these areas are detected the pilot will not allow the fire to be lit. Please review the installation conditions before proceeding.

Shutdown if the Handset is Faulty and the Fire is Lit

The appliance has a safety shut down switch which is built into the remote system. This is in the form of a button fitted inside the appliance. In the unlikely event that the wall switch is not fitted and handset is lost, damaged or broken while the fire is lit the fire can be shutdown by pressing this button.

Safety Shutdown Procedure

- Carefully lift the front shelf taking care that the appliance will be hot.
- The reset button is fitted to the top of the remote shield.
- Carefully insert hand below the shelf taking care not to touch any hot surfaces.
- Press and hold the button for up to 60 seconds.
- The appliance will shut down.
- Taking great care not to touch any hot surfaces carefully remove your hand and replace the front shelf.
- Do not use the appliance until the handset has been repaired or replaced.
- To purchase a new handset call 01325-327221.

Fault Diagnosis/Troubleshooting

Symptom	Check List	Tick
The system “beeps” all the time.	There is a fault diagnosis system built into the battery remote. The remote gives out a sequence of “beeps”. This is a code which indicates a fault. See section 13 for details.	
Appliance clicks but no spark or weak spark.	Check spark lead is connected properly.	
	Check spark electrode is in the correct area and the gap correctly distanced to the pilot.	
Appliance sparks but does not light pilot.	Check for a good spark. Check the spark is in the right area.	
	Check that the ventilation is not too strong and drawing the gas away from the pilot.	
	Check that there is gas at the input and at the pilot. Check that remote valve is operating correctly.	
If there is no gas.	Check isolation tap/shut off is open.	
	Check for blockages in the gas pipes.	
If there is gas but pilot does not light	Check for a good spark.	
	Check the spark is in the right area.	
	Check that the ventilation is not too strong and drawing the gas away from the pilot.	
	Check the pilot gas slot is clear.	
Pilot lights but does not light main burner	Check the pilot flame is heating the thermocouple.	
	Check the thermocouple nut is properly tightened into the valve.	
	Check that the pilot lights early on ignition clicks.	
	Check ventilation is not too strong and drawing the pilot flame away from the thermocouple.	
Burner lights but turns off after a few minutes	When using LPG Bottles ensure bottle is not empty. To run this appliance on bottles a minimum of 2 x 47KG bottles with a changeover valve is required. The bottles must have a suitable regulator.	
	Check thermocouple nut is properly secured to the valve.	
	Check ventilation is not too strong and the flame is not blowing off the thermocouple.	
	Check gas pressure is correct and maintained at constant level – especially with other appliances in the home working.	

Battery Remote System – Alarm Sequence

This fire is operated via a battery remote system with AA batteries. The remote system has a built in alarm system which indicates and faults which may arise. A fault is indicated by a sequence of a pre-defined "beeps". The number of beeps corresponds to a certain failure.

NOTE: There are two types of black box fitted to this type of appliance. See the black box to identify which one is fitted to your fire.

BLACK BOX – EDB20

Alarm sound description

2 x Beeps = Low battery alarm.

In case of low battery voltage (supply voltage below 6V) the buzzer produces a sequence of 2 beeps with a repetition rate of 1s. To resume the normal operation it's necessary to recharge or substitute the battery with a new one and to verify the alarm sound is no more present.

3 x Beeps = Manual Wall Keyboard failure sound.

In case of keyboard failure (i.e. cable opens or pushbutton stuck closed) the buzzer produces a sequence of 3 beeps with a repetition rate of 1s. To resume the normal operations it's necessary to substitute the keyboard with a working one and to verify the alarm sound is no more present.

4 x Beeps = Motor Failure sound.

In case of motor failure, the buzzer produces a sequence of 4 beeps with a repetition rate of 1s. To resume the normal operations it's necessary to substitute the valve with a working one, to repeat the ignition sequence and to verify the alarm sound is no more present.

5 x Beeps = Driver leakage sound.

In case of on board motor driver current leakage failure the buzzer produces a sequence of 5 beeps with a repetition rate of 1s. To resume the normal operation it's necessary to substitute the board with a working one, to repeat the ignition sequence and to verify the alarm sound is no more present.

6 x Beeps = Under voltage low battery.

In case on under voltage low battery (supply voltage less than ADC circuit reference power supply); the buzzer produces a sequence of 6 beeps with a repetition rate of 1s. To resume the normal operations it's necessary to substitute the battery with a new one and to verify the alarm sound is no more present.

BLACK BOX – IR/RF

Alarm sound description

7 x beeps – Low Battery

Substitute the battery with a new one and verify the sound alarm stops. Before inserting the new battery pack, remove the old one and wait until the sound disappears. Wait at least 2 minutes before adding the new batteries. If the sound is still present after adding new batteries, execute an ignition sequence.

3 x beeps – Manual Wall Switch Keyboard Failure

Substitute the keyboard with another one and verify the sound alarm stops.

4 x beeps – Valve Motor Failure

Substitute the valve with another one. Repeat the ignition sequence and verify the sound alarm stops.

5 x beeps – Driver Leakage [Black Box Faulty]

Substitute the board: the motor drive circuit is damaged. Execute an ignition sequence and verify there's no sound alarm.

6 x beeps – Under Voltage Low battery

Substitute the battery with a new one and verify the sound alarm stops. Before inserting the new battery pack, remove the old one and wait until the sound disappears. Wait at least 2 minutes before adding the new batteries. If the sound is still present after adding new batteries, execute an ignition sequence.

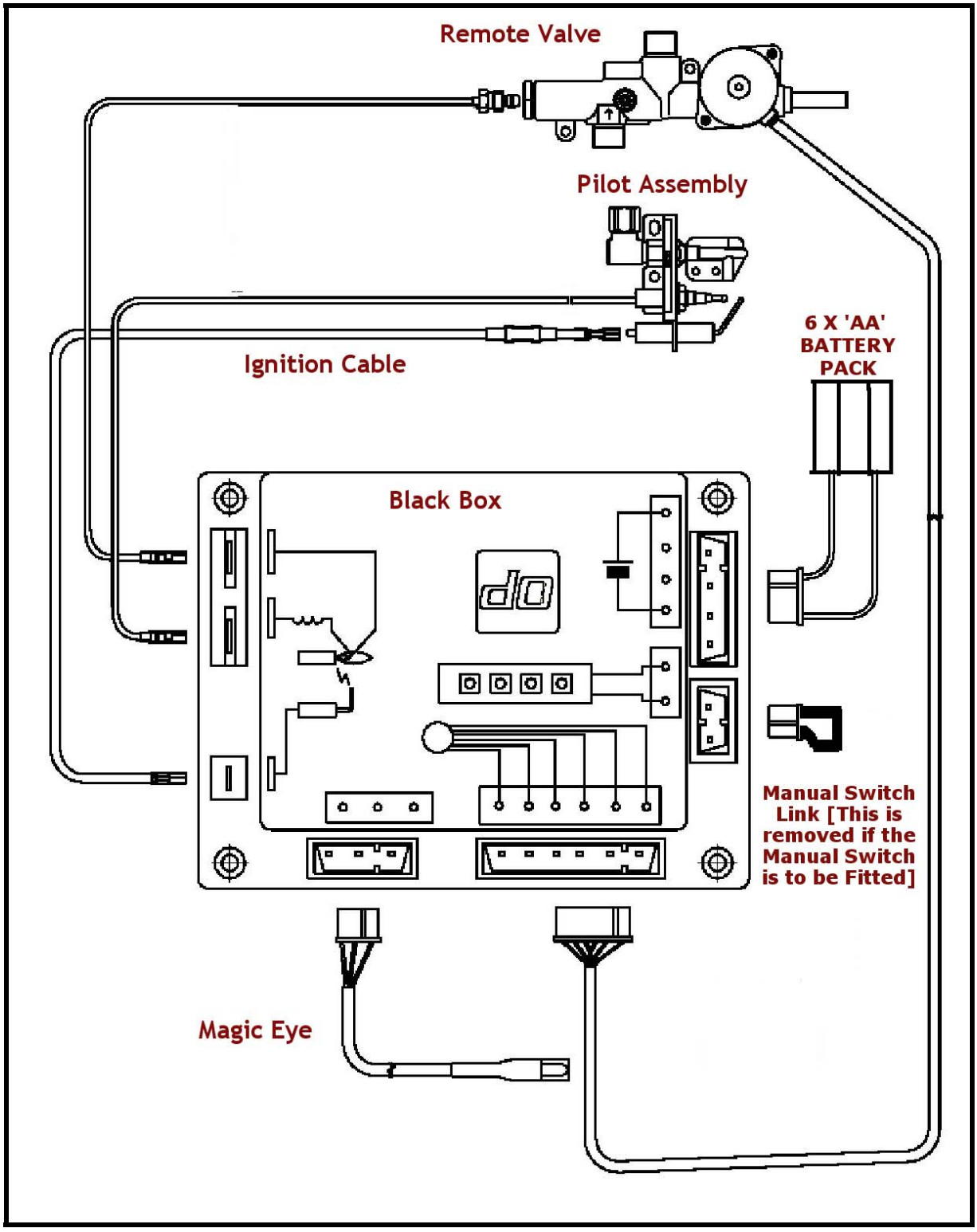
Battery Replacement:

When replacing the batteries they must be replaced as a complete set and a full new set used. The system has a memory and if any old batteries are used the alarm sequence will not be reset.

To reset the alarm:

Remove the old batteries.
Wait 10 minutes.
Fit a set of 6 new Alkaline or Lithium batteries.
Start the fire.

Remote Control Components


Remote Valve
Pilot Assembly
Ignition Cable
6 X 'AA' BATTERY PACK
Black Box
Manual Switch Link [This is removed if the Manual Switch is to be Fitted]
Magic Eye

Service and Aftercare Requirements

When completing the annual service of the unit, refer to the enclosed technical installation and operational manual & the remote control instruction document.

The gas unit should be installed to the manufacturer's instructions by a Gas Safe registered gas installer, every 12 months the gas fire unit should undergo a regular service, this work should be carried out by a competent person who is Gas Safe registered, familiar with the CVO Fire range of goods.

When carrying out the annual service, the competent person should examine and verify the following;

- The correct safe operation of the ODS (oxygen depletion system)
- That the fire unit correctly cross-lights
- A pressure drop test to verify that there are no gas leaks
- That the electronic ignition system operates correctly
- That the burner surface is free from damage and debris
- That the owner has a copy of the installation and operation manual

Servicing Instructions

General

CVO Recommend that this appliance is serviced every 12 months by a GAS SAFE Engineer.

The following servicing procedure should be carried out regularly and only by a qualified person.

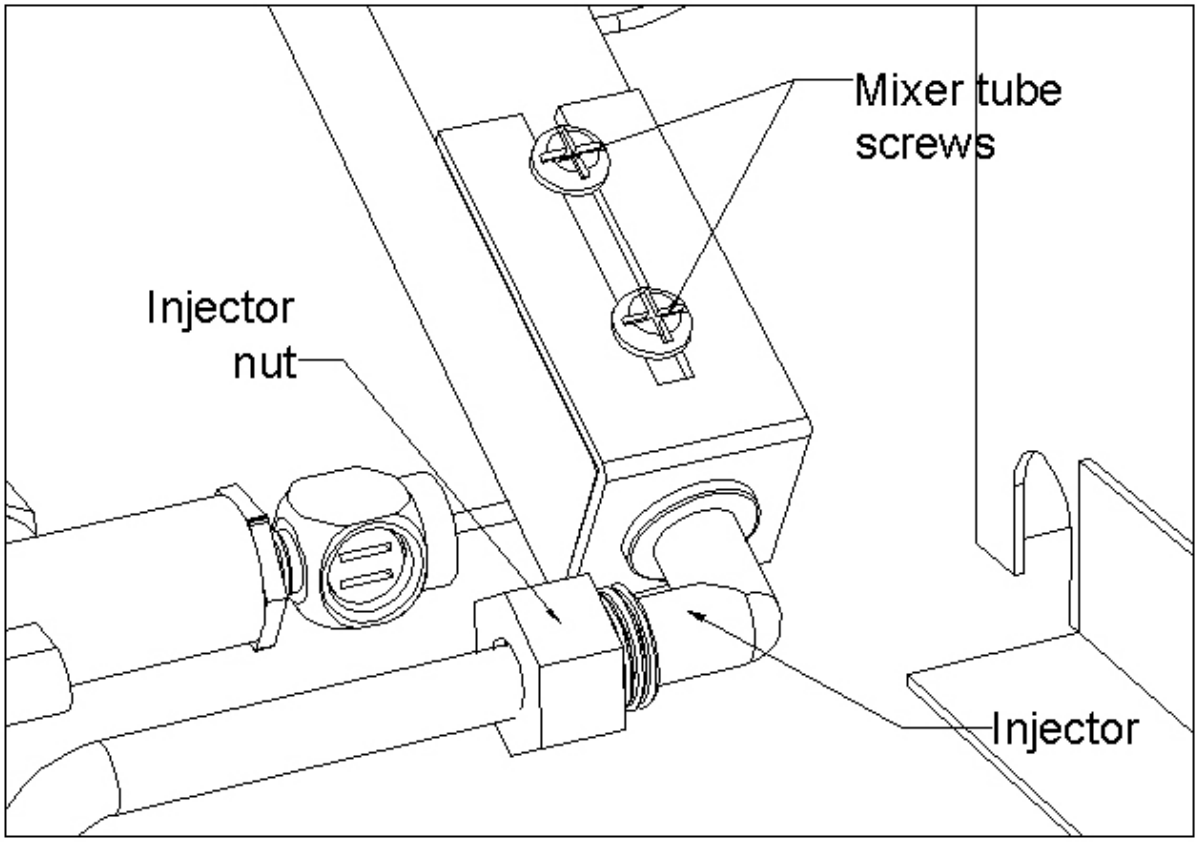
Note: foreign bodies, which can gather on the surface of the burner unit, it is inevitable that servicing can be a dusty operation. Suitable precautions should be taken.

Important: The pilot and flame sensing device fitted to this fire is also an atmosphere sensing device. If for any reason any part of the pilot assembly is to be replaced, the entire assembly including the pilot burner, thermocouple electrode and injector must also be exchanged. This atmosphere sensing devise is not adjustable and must not be disabled.

Servicing Procedure

- Turn off the fire and allow cooling time.
- Turn off the gas supply at the isolation tap.
- Remove the fascia.
- Using a Phillips style *screwdriver*, loosen the screws on the mixer tube then undo the injector nut, and remove the injector.
- Clean the injector and remove blockages. Do not use a needle or wire, as this may widen the journals, which are set to the C V O test standards.
- Using a soft brush or vacuum cleaner, carefully remove any debris from the burner unit.
- Make sure the pilot journals are clear and free from dirt.
- Re-assemble the fire in the reverse order, and re-connect the gas supply then check for soundness.
- Check the pilot for a good flame.
- Re-commission the fire (See section earlier in this booklet).

For Spare Parts please call 01325-327221 and ask for customer service.



Replacement Parts List

There are no "user" replacement parts available for this fire. The fitting of replacement parts must be carried out by a qualified GAS SAFE Engineer inline with current regulations.

Item description	Code
8mm Isolation Tap	AC026
Pilot Natural Gas (Manual)	SIT-NG-9103
Pilot Propane/LPG (Manual)	SIT-LPG-9272
Injector Natural gas	Stereomatic – 380
Injector LPG	Stereomatic – 1.25mm
Remote Control Parts	Available upon request

Note: spare parts are not returnable. CVO Fire cannot accept responsibility for incorrect parts being ordered. When ordering replacement components or requesting technical assistance, you should quote the following information: Type of fire, the gas type, the serial number as shown on Data Plate, plus the component part number or description of fault

Fitting Spare Parts : When removing any parts from the remote system these should be replaced in the same manner using the "schematic diagram" in this booklet. When changing the injectors or pilot great care must be taken to assemble the parts in the correct manner to ensure the fire functions as designed.

Burner Removal

Removal of the burner during installation will invalidate the warranty. Speak to our technical department. If the burner needs to be removed at anytime for repair follow the steps below:

- With the help of an assistant carefully remove the fascia. This will be different depending on type – metal or stone. (see install method earlier in this booklet). Great care must be taken as the remote magic eye is fitted to the fascia.
- Lift the fascia from the wall sufficient to allow the magic eye to be unclipped from the black box remote.
- Place the fascia in a safe position.
- Lift out the front shelf taking care not to scratch the enclosure.
- Remove the 2 screws on each side which hold the shelf mounting brackets to the enclosure.
- Isolate and disconnect the gas supply.
- The burner carriage is screwed to the bottom of the enclosure by 2 screws. Once removed the full burner assembly will lift out.
- Refit is the same procedure in reverse.
- The fire should be commissioned once refitted.

COMPACT FIRE RIBBON

with Battery Remote System

GAS FIRE USER INSTRUCTIONS & GUIDE

For use with Natural Gas (G20) or LPG (G31)

This manual must be handed to the owner to the owner of the property once commissioned

Contents

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Page 42 Shutdown if the Handset is Faulty and the Fire is Lit
Page 43 Replacing the Batteries
Page 44 Cleaning Instructions
Page 45 Warranty Information
Page 46 Fitting the Optional Wall Switch-Fires with Battery Remote
Page 50 Contact Details

General Information

A qualified GAS SAFE registered installer is required to fully install the appliance, failure to do this may render the appliance dangerous and will invalidate the warranty.

This fire is intended for decorative purposes. Any purpose-provided ventilation should be checked regularly to ensure that it is free from obstruction. The fire should be serviced regularly by a qualified person.

The chimney should be swept before the appliance is installed, and should be swept and inspected regularly to ensure that all of the products of combustion are entering the flue and there is no excessive build up of soot.

Do not throw rubbish et cetera upon the burner surface. Debris from any source, or soot formed, should be removed from time to time, see 'Cleaning instructions'.

If any of its parts are damaged and need to be exchanged the original manufacturers parts must be used.

Pilot Assembly: The pilot light and flame sensing device fitted to this fire is also an atmosphere sensing device, which shuts off both the main burner and pilot if evacuation of the combustion products is interrupted. If the fire shuts itself off, restart the fire following the procedure in section 'Lighting the fire'. If the fire continues to shut itself off do not use the fire, and have the flue and fire checked by a suitably qualified person. The pilots ODS (Oxygen depletion sensor) must not be put out of operation.
The user must not adjust the pilot.

Once the flue and fire units have been checked and remedial action taken, the fire is ignited in the manner depicted in section 'Lighting the fire'.

Due to the newness of materials, the fire may give off a slight smell for a period of time after commissioning. This is quite normal and any odours should disperse within a few hours of operation.

For some countries a purpose provided air supply must be fitted in accordance with National Regulations.

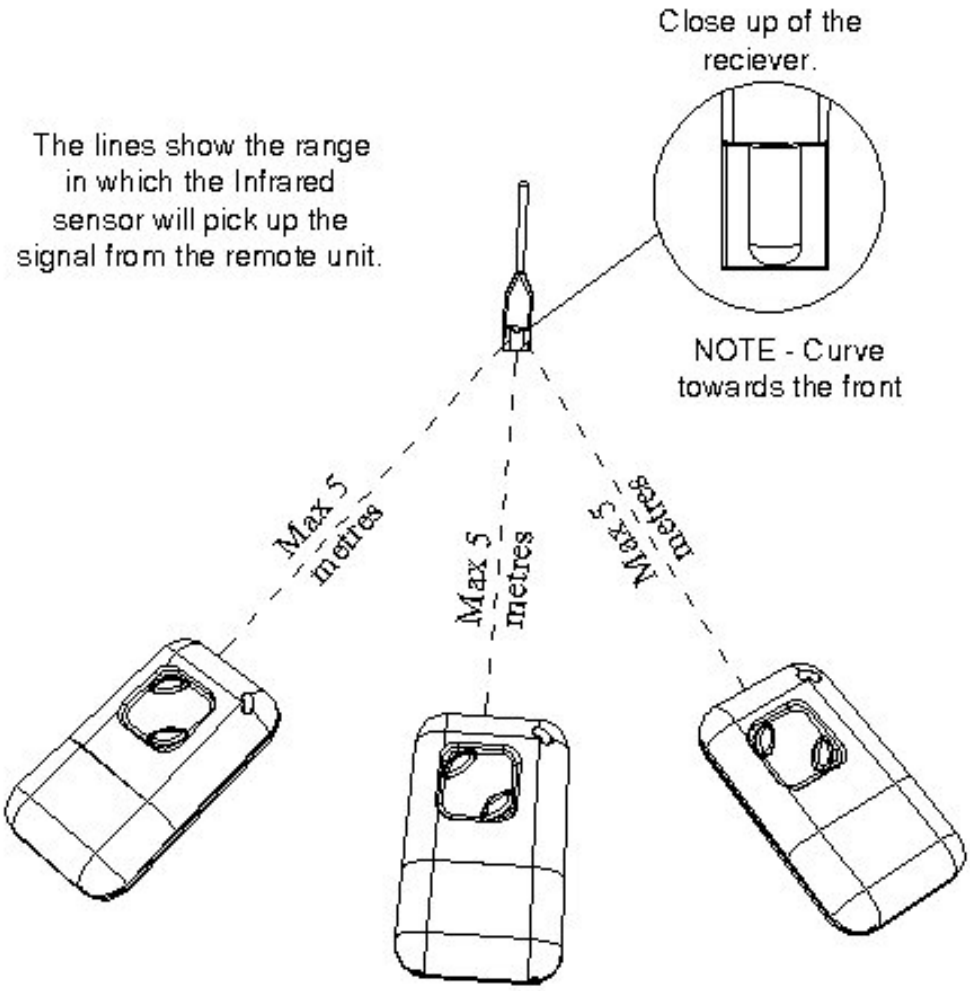
This fire should be checked regularly to ensure that it is free from obstruction. A qualified person should service the fire regularly.

Fire Guards : It is recommended that a fireguard conforming to BS6539 or BS6778 is used for the protection of young children, the elderly and infirm.

Lighting the Fire

Infra-Red Remote Operation

Infrared systems require "Line of sight" between the handset and the sensor at the appliance, it is a standard safety feature to ensure that the appliance cannot be remotely lit from another room.


Close up of the reciever.
The lines show the range in which the Infrared sensor will pick up the signal from the remote unit.
NOTE - Curve towards the front
Max 5 metres
Max 5 metres
Max 5 metres

The range of your remote control unit is around 5 metres.It is very important the handset is directed toward the infrared eye on the appliance

Appliance Start Up / Shut Down Instructions

The appliance is supplied with an internal battery power supply and is operated via handset. There are 6 x 'AA' batteries inside the appliance and 1 x 9V battery in the handset. Only use good quality batteries to ensure a long life.

If the main burner or pilot light is extinguished during lighting, do not attempt to re-light the pilot within three minutes.

To Reset the Appliance:
If the appliance is shut down unexpectedly the valve must be reset first before the fire can be re-lit. This can be done by pressing the "OFF" (button #1) until a beep is heard. Wait a few seconds then commence the starting sequence as detailed below by pressing both left had buttons at the same time.

Using the Handset (see image).

- **To Light the Fire** – As a "child proof" system both buttons #1 & #2 must be pressed at the same time for a number of seconds until the ignition (spark) sequence starts. To operate correctly the handset must be pointed directly at the magic eye on the appliance. When the pilot flame presence is detected (ionization flame control) the system holds for 10 seconds to warm the thermocouple. Once the thermocouple is warm enough to hold the magnet unit the valve will allow gas to the burner at the maximum setting.
- In case of failure during pilot ignition sequence, the EDB puts the system in safe mode. To restart the ignition sequence press Button #1 again.
- **Standby Mode** - It is possible once the fire is lit to operate in standby mode with pilot only lit. To do this press button #2.

- **High Setting** - By pressing Button #3 the burner flame is increased to the maximum rate.

- **Low Setting** - By pressing Button #4 the burner flame can be reduced to the minimum rate.

- **Turn Off** - To turn the appliance OFF Button #1 is pressed.

Each time a button is pressed a "beep" will be heard.

- **To Summarise:**
  - Button #1 & #2 together – This switches the appliance ON.
  - Button #1 – This switches the appliance OFF and Resets the Appliance.
  - Button #2 – This sets the unit into standby mode (pilot only)
  - Button #3 – This sets the flame at maximum rate.
  - Button #4 – This sets the flame at minimum rate.

Each time a button is pressed a "beep" will be heard.

Using the Manual Control Panel (if fitted).

Included with the fire is a manual switch membrane which can be stuck to the wall. Please ensure that the switch and cable do not become detached during assembly. Refer to the remote fault diagnosis if the unit "beeps" repeatedly.

If the switch is not to be used or fitted the remote "link" must be fitted to the remote black box. The fire will not operate without either the switch or the link.

- Button #1 - By pressing this switch, this starts the ignition sequence (press & hold for 3 sec minimum). The gas to the pilot is open and the magnet unit pressed by the motor, the spark is generated. When the pilot flame presence is detected the system holds for 10 seconds to warm the thermocouple.
- Once the thermocouple is warm enough to hold the magnet unit the valve will allow gas to the burner at the maximum setting.
- In case of failure during pilot ignition sequence, the EDB puts the system in safe mode. To restart the ignition sequence press Button #1 again.
- It is possible once the fire is lit to operate in standby mode with pilot only lit. To do this press button #2.
- By pressing Button #3 the burner flame is increased to the maximum rate.
- By pressing Button #4 the burner flame can be reduced to the minimum rate.
- To turn the appliance OFF Button #1 is pressed.
- Each time a button is pressed a "beep" will be heard.

NOTE:

If the appliance is shut down unexpectedly the valve must be reset first before the fire can be re-lit. To do this press the "OFF" button until a beep is heard. Then commence the starting sequence as detailed above by pressing both left had buttons at the same time.

The pilot is a safety device which monitors the gas pressure and flue conditions. If a fault in either of these areas are detected the pilot will not allow the fire to be lit. Please review the installation conditions before proceeding.

Shutdown if the Handset is Faulty and the Fire is Lit

The appliance has a safety shut down switch which is built into the remote system. This is in the form of a button fitted inside the appliance. In the unlikely event that the wall switch is not fitted and the handset is lost, damaged or broken while the fire is lit the fire can be shutdown by pressing this button.

Safety Shutdown Procedure

- Carefully lift the front shelf taking care that the appliance will be hot.
- The reset button is fitted to the top of the remote shield.
- Carefully insert hand below the shelf taking care not to touch any hot surfaces.
- Press and hold the button for up to 60 seconds.
- The appliance will shut down.
- Taking great care not to touch any hot surfaces carefully remove your hand and replace the front shelf.
- Do not use the appliance until the handset has been repaired or replaced.
- To purchase a new handset call 01325-327221.

Replacing the Batteries

Main Appliance Batteries

If the remote alarm indicates that the batteries are "flat" do not use the appliance. Ensure the appliance is switched off and has had time to "cool down".

Lift the front shelf of the appliance taking care not to scratch the sides of the enclosure. The battery pack will be visible. Lift the battery pack from its holder and remove the flat batteries.

Insert 6 x AA batteries in the correct order and replace the battery pack in the holder, ensuring that no wires are disconnected.

Refit the front shelf.

Hand Set Batteries

Turn over the hand set and unclip the battery cover. Fit a new 9V battery and refit the battery cover. The appliance should now operate normally.

NOTE: CVO Fire recommends that only high quality batteries are used in this appliance. Lithium batteries provide the longest life.

Cleaning Instructions

Before cleaning the appliance turn off the Fire unit and allow it to cool for a number of hours. Before using any cleaning materials test a small area first to ensure compatibility with the appliance finish. CVO Fire cannot be held responsible for damage caused by cleaning the appliance.

Burner Bar / Deposits

It is normal for the burner bar to show a redish or white deposit. This is caused by bi-products of the gas being burnt and is unavoidable. This can be remedied by using a stove paint like **Hotspot High Temperature Stove Paint** which is sold in 100ml cans online for approx £7. Similar products may also be available from major DIY stores or fireplace retailers. It may be required to paint the burner bar every 6 months or so depending on usage.

Cleaning the Gas Fire Burner and Enclosure

The most effective method of dust/debris removal is achieved with the aid of a vacuum cleaner however; great care must be taken to ensure that the pilot assembly is not touched. Using a vacuum cleaner with a soft brush head gently remove any debris/dust from inside the enclo0sure and around the burner unit. Once all of the dust and debris has been removed the surfaces can be cleaned with the use of a soft cloth and a hand held "stainless seel" cleaner which is available from most supermarkets.

Cleaning the Metal Fascia

This can be done with a soft cloth and a hand held "stainless steel" cleaner which is available from most supermarkets.

Cleaning the Stone Fascia

This can be done with a soft cloth and "stone cleaner" which is available from most supermarkets.

Removing spillages

This appliance has an electronic remote system. Where a liquid has been spilled onto the surface of the fire or enclosure DO NOT USE THE APPLIANCE – contact your installer to ensure the remote system functions correctly.

Wax

Never place candles on the burner shelves. If molten wax enters the burner unit – DO NOT USE THE APPLIANCE - contact your installer to remove the spillage and ensure the remote system functions correctly.

WARRANTY INFORMATION

This appliance carries full CE approval and has a long and reliable history. The CE approval ensures that, if installed correctly, the appliance will function as designed. If the appliance develops a fault please refer to the fault diagnosis section earlier in this booklet for possible causes.

This appliance is supplied with a 12 month warranty from the date of delivery.

The Warranty covers defective parts only and does not cover typical wear and tear that occurs with a gas fire appliance.

In order to make a warranty claim you will be required to supply the serial number of the appliance [as shown on the front of this book] and full details of the GAS SAFE engineer who installed the appliance - we may request a copy of the installation receipt. Failure to supply details of the Registered Engineer who installed the appliance will invalidate the warranty.

To register your appliance please complete and return the warranty card supplied with the fire.

To raise a warranty claim call Customer Service on 01325-327221.

IMPORTANT NOTE - "Heat Damage"

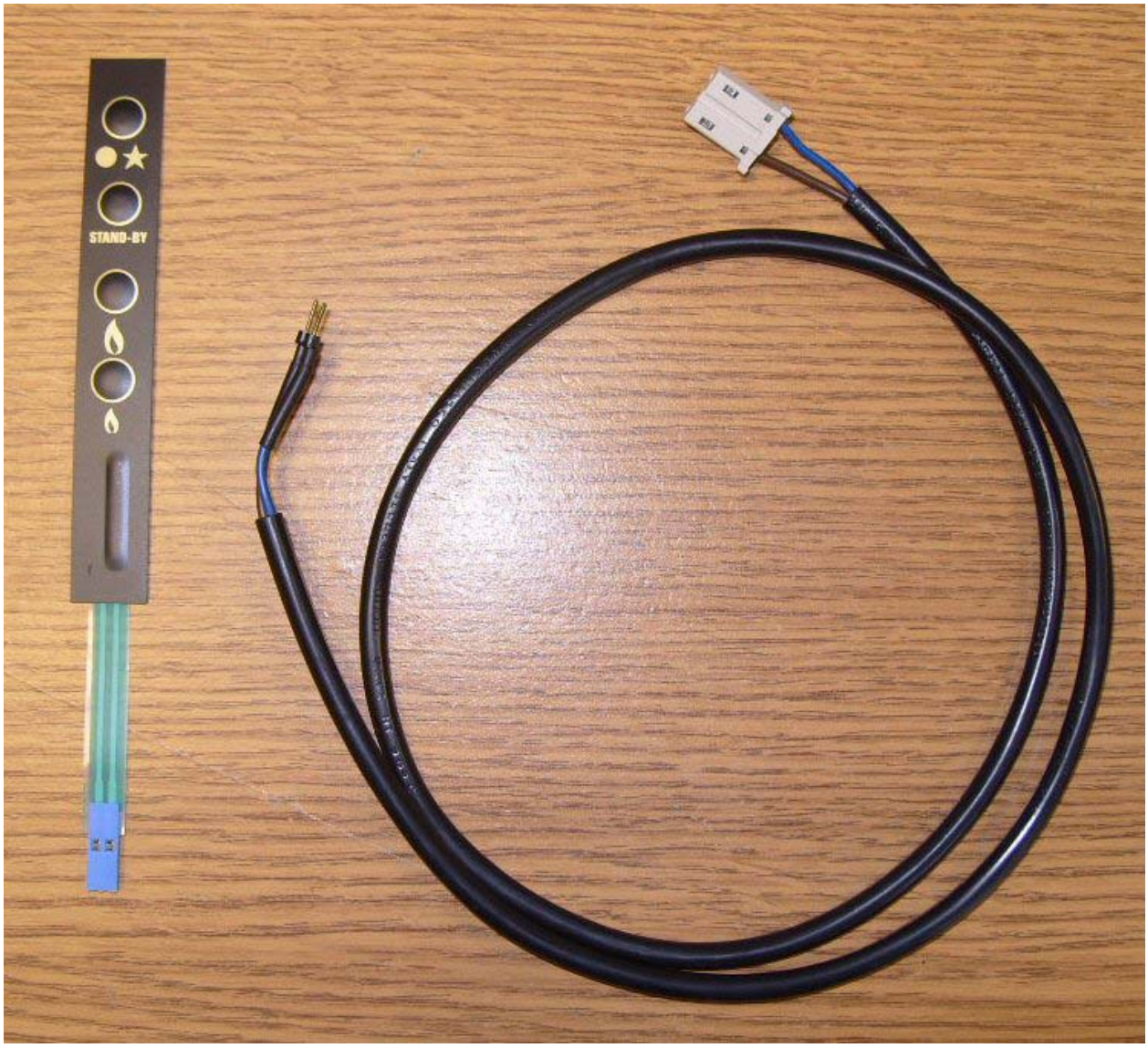
This fire must never be operated without the heat shield in place over the Black Box. Failure to do this will result in serious damage to the remote system.

We will not accept any claims for "melted remote system". In this instance in highlights a very serious issue over the installation of the appliance. The appliance has been tested to CE standards to ensure, when installed correctly, that all of the components operate within the designed temperatures. In the instance of the remote system becoming hot enough to melt it highlights an install fault not a component failure. Typical causes are – using the fire without the heat shield, incorrect burner ventilation, unsealed enclosure, an unsealed flue system or flame reversal. Before purchasing new parts to repair the fire the cause of the melting must be rectified.

We will not accept any claims where the burner wiring or connections have been tampered with.

Fitting the Optional Wall Switch

For Fires with Battery Remote

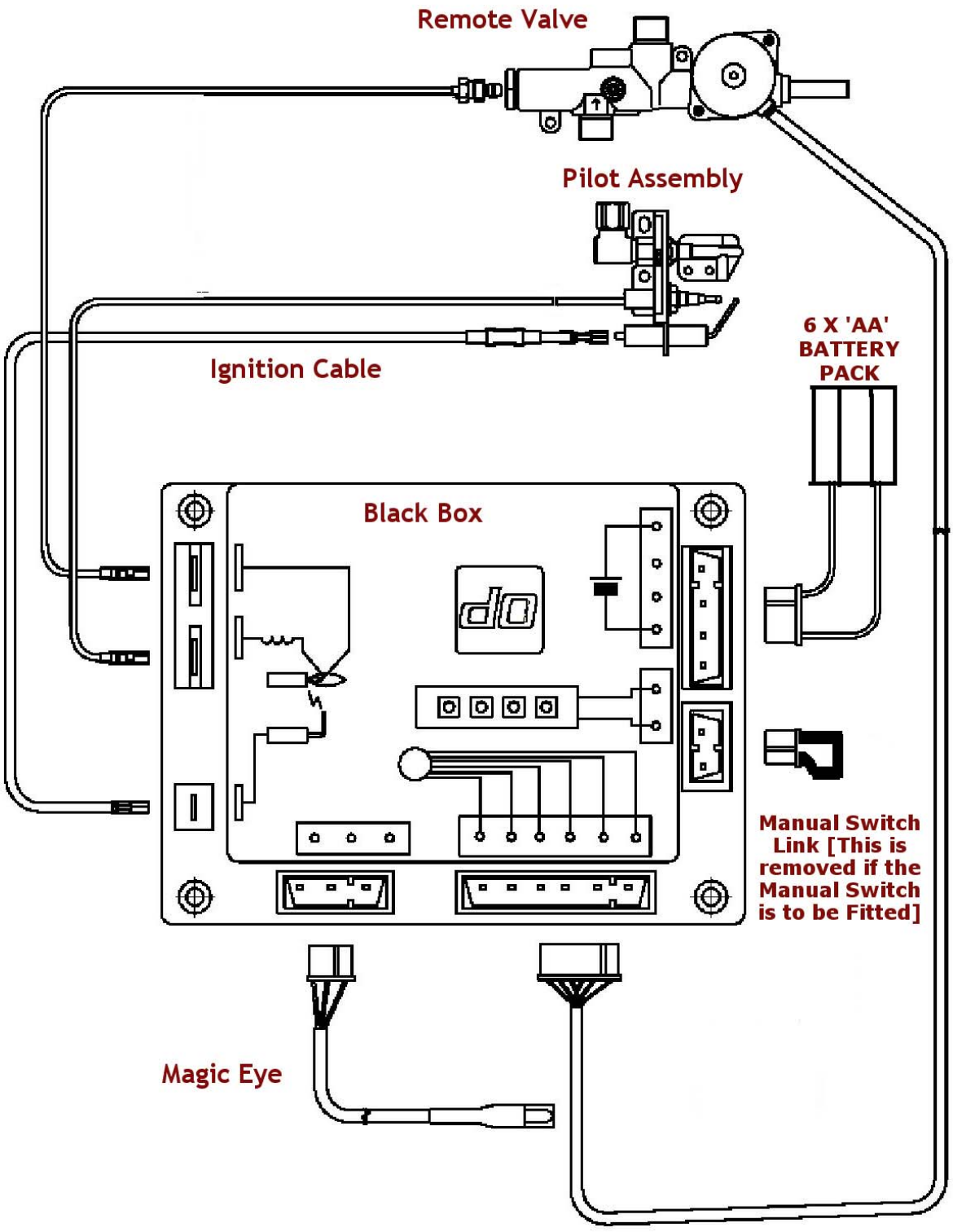


Important

This work must be carried out by a GAS SAFE REGISTERED ENGINEER.

Remote Diagram

Take some time to review the attached diagram



NOTE THE POSITION OF THE "LINK"

INSTRUCTIONS

1. Use the gas isolation valve to isolate the gas.
2. Taking care not to damage any components on the circuit board remove the heat shield.
3. Note the position of the link in the circuit diagram.
4. Gently remove the link and replace this with the wall switch cable.
5. Route the cable as require ensuring that it is kept away from hot surfaces.
6. Secure the wall switch in the required place and connect the cable.
7. Refit the heat shield on the remote system.
8. Reconnect gas
9. Review the section on "lighting the fire" to ensure the wall switch operates correctly.
10. Operate fire as normal.

VERY IMPORTANT NOTE

If the link "or" the wall switch is not fully connected to the remote the remote system will not work.

To confirm:

THE LINK MUST BE FITTED

Or

THE WALL SWITCH MUST BE FITTED

CVO Fire will not accept any warranty claims resulting from damage caused by fitting or removing the manual wall switch from the fire.

ONLY USE GENUINE REPLACEMENT PARTS.

Spirit Fires Ltd,
4 Beaumont Square
Aycliffe Industrial Park,
Newton Aycliffe
County Durham,
DL5 6XN
T – 01325 327 221
F – 01325 327 292
www.cvo.co.uk

The information supplied in this manual is correct at the time of publication;
Dated on the 12-12-2010.

There may be changes made in future as we improve our products.

If there are any queries about this appliance please email info@cvoco.uk or call our technical department on 01325-327221.

Visit our web site for further details of our products